

A LIST OF DIPTERA TAKEN AT KEARNEY, ONTARIO, IN  
JULY, 1909.

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The Diptera listed below were taken by me during a collecting trip to Kearney, July 2nd to 9th, 1909. As I had no thought at the time of publishing a list of the species taken, many of the common forms were not noted, but such unrecorded species are probably well known and widely distributed.

Kearney is located in the Parry Sound District, about fifty miles north of Muskoka, and as many miles east of Parry Sound. It is surrounded by low hills, from which most of the pine had been cut, the trees still standing being largely birch. In many places there was a thick growth of hazel and raspberry, and many *Cornus* bushes, which were in bloom at the time, were scattered over the low ground. There are well-tilled farms among the hills and along a valley through which a considerable stream flows, and near the town widens into almost a lake and receives several swampy creeks. There is, therefore, a great variety of conditions within a small area about Kearney, and I found it an excellent location for collecting insects.

I am greatly indebted to Prof. C. W. Johnson for the determination of a large number of the species enumerated in this list, and to Prof. J. M. Aldrich for his determination of *Dolichopidae* and for his help and encouragement which has enabled me to determine some of these species myself. I also wish to acknowledge my indebtedness to Prof. James Hind, who kindly went over all the *Tabanidae*, and to Dr. Johannsen and Dr. Williston for the study of material. Where not otherwise indicated, the species have been determined by myself.

The nomenclature here used follows the Aldrich Catalogue, except in a few cases, where the change is noted.

## Family TIPULIDÆ.

- Rhipidia fidelis* O. S.
- Limnobia triocellata* O. S.
- Erioptera armata* O. S.
- Erioptera caloptera* Say.
- Liogma nodicornis* O. S.
- Bittacomorpha clavipes* Fabr.
- Oropeza venosa* Johnson.

*Ctenophora apicata* O. S.—I took one female flying by a roadside in a patch of swampy woods, and have since taken another specimen under similar conditions at Ridgeway, Ont.

*Pachyrhina incurva* Loew.

Family CHIRONOMIDÆ.

*Palpomyia rufus* Loew.—Det. Johnson.

*Palpomyia trivialis* Loew.—Det. Johnson. In the Aldrich Catalogue these two species are placed in *Ceratopogon*, but Johannsen refers them to *Palpomyia*.

*Procladius caliginosus* Johannsen.—Det. Johannsen.

*Tanytus monilis* Linn.—Det. Johnson.

*Chosmatonotus unimaculatus* Loew.—Det. Johnson. The White Mts., N. H., are given as the type locality of this species. I took several species at Kearney that were described from the White Mountain District.

*Chironomus nigricans* Johann.—There was but one specimen, a female, among the Kearney material, but probably it was a common species there. I have found it abundant at Toronto and about Buffalo.

*Chironomus atrimanus* Coq.

*Metriocnemus par* Johann.—I took one female that appears to be of this species, but the dark markings are of a very light brown. It seems to be immature, and measures but 4 mm.

Family CULICIDÆ.

*Anopheles punctipennis* Say.

*Culex cantans* Meig.

*Culex sylvestris* Theobald.

Family MYCETOPHILIDÆ.

*Symmerus (Plesiostina) lauta* Loew.

*Apemone* sp.—This may be *Platyura maudæ* Coq., but the abdomen is black, except that most of the third segment is reddish-yellow, otherwise it agrees well with the description of that species.

*Mycomya mendax* Johann.—My one female seems to agree well with the description of the female taken by Aldrich at Juliaetta, Idaho.

Family BIBIONIDÆ.

*Bibio xanthopus* Wied.—Det. Johnson.

*Dilophus obesulus* Loew.—Det. Johnson.

*Dilophus* sp.

*Scatopse atrata* Say.—Det. Johnson.

## Family SIMULIIDÆ.

*Simulium meridionale* Riley.

*Simulium venustum* Say.—This species was very troublesome the first days of July.

## Family RHYPHIDÆ.

*Rhyphus fenestralis* Scopoli.—Det. Johnson.

## FAMILY STRATIOMYIDÆ.

*Beris annulifera* Bigot.—Det. Johnson.

*Allognosta fuscitarsis* Say.—Det. Johnson.

*Actina viridis* Say.—Det. Johnson.

*Geosargus (Sargus) cuprarius* Linn.—Det. Johnson.

*Geosargus viridis* Say.—Det. Johnson.

## FAMILY TABANIDÆ.

[Prof. Hind determined or verified all the species in this family].

*Chrysops mitis* O. S.

*Chrysops celer* O. S.

*Chrysops carbonarius* Walker.

*Chrysops cuclux* Whitney.

*Chrysops excitans* Walker.

*Chrysops frigidus* O. S.

*Chrysops striatus* O. S.

*Tabanus lasiophthalmus* Macq.

*Tabanus illotus* O. S.

*Tabanus epistates* O. S.—Numbers of this species could always be found on the windows of the railway station.

## Family LEPTIDÆ.

*Xylomyia pallipes* Loew.—Det. Johnson.

*Leptis mystacea* Macq.—Det. Johnson.

*Leptis plumbea* Say.—Det. Johnson.

*Chrysospila quadrata* Say.—Det. Johnson. Abundant in damp woods.

## Family CYRTIDÆ.

*Pterodontia flavipes* Gray.—I took one specimen while beating low bushes on a hillside. I have another specimen taken by my brother, E. P. Van Duzee, on Mackinac Isd., Michigan, in July, 1910.

## Family BOMBYLIIDÆ.

*Spogostylum pluto* Wied.—Det. Johnson. I saw quite a number on



the ground and on logs where there had been a bush fire a few weeks previous.

*Anthrax morio* Linn.—Det. Johnson. Common along paths and roads. Those taken vary from  $4\frac{1}{2}$  mm. to 9 mm. in length.

*Anthrax lepidota* O. S.

Family THEREVIDÆ.

*Thereva frontalis* Say.—Det. Johnson.

*Thereva nigra* Say.—Det. Johnson.

Family ASILIDÆ.

*Dasyllis grossa* Fabr.

*Dasyllis socratos* Walker.

*Dasyllis posticata* Say.—Det. Johnson.

*Dasyllis flavicollis* Say.—Det. Johnson.

*Laphria sericea* Say.—Det. Johnson.

*Laphria ætatus* Walker.—Det. Johnson.

*Laphria* sp.—Much like the preceding, but with a golden and black matrix.

*Laphria pubescens* Willist.—Det. Johnson.

*Laphria canis* Willist.—I found *Dasyllis* and *Laphria* much more abundant than they are about Buffalo.

Family DOLICHOPIDÆ.

*Psilopodinus patibulatus* Say.—Det. Johnson.

*Psilopodinus scobinator* Loew.—Det. Aldrich. This species was very abundant along the sunny edges of woods. There were great numbers of individuals of this family near the marshy borders of the streams, and I now regret that I was not more thorough in collecting them.

*Chrysotus obliquus* Loew.—Det. Aldrich. These were also abundant in sunny places.

*Chrysotus affinis* Loew.

*Chrysotus chloricus* Wheeler.

*Chrysotus discolor* Loew.

*Argyra albicans* Loew.—Det. Aldrich.

*Neurigonia* spp.—I sent two species belonging to this genus to Prof. Aldrich, and he reports that both are still undescribed.

*Neurigonia rubella* Loew.—One female seems to belong to this species.

*Medeterus* sp.—One female belonging to this genus I have not yet been able to determine.

*Dolichopus calcaratus* Aldr.—Quite abundant in places.

*Dolichopus longimanus* Loew.

*Dolichopus palestricus* Loew.

*Dolichopus batillifer* Loew.

*Dolichopus* sp.—Prof. Aldrich determined this as No. 32 of his manuscript table of the species of *Dolichopus*.

*Dolichopus splendidus* Loew.—Det. Aldrich.

*Dolichopus melanocerus* Loew.

*Dolichopus brevimanus* Loew.

*Dolichopus reflectus* Aldr.

*Dolichopus lobatus* Loew.

*Dolichopus discifer* Stannius.

*Dolichopus scoparius* Loew.

*Dolichopus chrysostoma* Loew.

*Gymnopternus frequens* Loew.—Det. Aldrich.

*Hercostomus unicolor* Loew.—Det. Aldrich.

*Paraclius claviculatus* Loew.

#### Family EMPIDÆ.

*Platypalpus flavirostris* Loew.—Det. Johnson.

*Synechus pusillus* Loew.

*Empis pallida* Loew.—Det. Johnson.

*Empis pæciloptera* Loew.

*Rhamphomyia mutabilis* Loew.—Det. Johnson.

*Rhamphomyia basalis* Loew.

*Rhamphomyia hirtipes* Loew.

*Rhamphomyia pulla* Loew.

*Rhamphomyia minutus* Walker?

*Rhamphomyia luteiventris* Loew.—Det. Johnson.

#### Family PLATYPEZIDÆ.

*Platypeza velutina* Loew.—Det. Johnson.

#### Family PIPUNCULIDÆ.

*Pipunculus nitidiventris* Loew.—Det. Johnson.

#### Family SYRPHIDÆ.

*Microdon tristis* Loew.—Two specimens were taken resting on leaves of hazel bushes.

*Chrysogaster pulchella* Willist.

*Pipiza* spp.—Two species were taken, one of which may be *puella* Willist., but I cannot be sure of the species belonging to this genus.

*Paragus tibialis* Fallen.

*Melanostoma mellinum* Linn.

*Syrphus Americanus* Wied.

*Syrphus Lesueurii* Macq.

*Syrphus ribesii* Linn.

*Syrphus arcuatus* Fallen.

*Allograpta obliqua* Say.—Quite abundant about meadows.

*Mesogramma geminata* Say.

*Sphærophoria cylindrica* Say.

*Sphegina lobata* Loew.

*Sphegina Keeniana* Willist.

*Rhingia nasica* Say.

*Volucella evecata* Walk.

*Sericomyia bifasciata* Willist.—Two specimens taken flying in the bright sunshine about the leaves of low weeds along the edge of a wood.

*Sericomyia chalcopyga* Loew.—One specimen was taken resting on a leaf in the woods.

*Condidea lata* Coq.—Det. Williston. Several were seen flying around and alighting on the wet ground along a roadside ditch in the woods, but their motions were so quick I was only able to capture one.

*Helophilus grænlandicus* O. S.—These were taken with the preceding. I also took one on stones in a running brook.

*Syritta pipiens* Linn.

*Xylota ejuncida* Say.—Det. Williston. Also taken by the side of the water.

#### Family CONOPIDÆ.

*Zodion fulvifrons* Say.—Det. Johnson.

*Zodion nanellum* Loew.—Det. Johnson.

*Oncomyia abbreviata* Loew.—Det. Johnson.

*Myopa clausa* Loew.—Det. Johnson.

#### Family TACHINIDÆ.

*Macquartia pristis* Walk.—Det. Johnson.

*Ocyptera dorsiadæ* Walk.—Det. Johnson.

*Metachæta helymus* Walk.

*Peleteria tesellata* Fabr.—Det. Johnson.

*Archytas aterrima* Desvoidy.—Det. Johnson.

## Family MUSCIDÆ.

*Morellia micans* Macq.—Det. Johnson.

## Family ANTHOMYIDÆ.

*Mydæa nigripennis* Zett.—Det. Johnson.

*Spilogaster signia* Walk.—Det. Johnson. I saw a number of these in the crevices of the rough bark of large trees.

*Spilogaster nitens* Stein.—Det. Johnson.

*Spilogaster pagana* Fabr.—Det. Johnson.

*Limnophora diaphana* Wied.—Det. Johnson. Taken resting on trunks of trees.

*Phorbia latipennis* Zett.—Det. Johnson.

*Phorbia fuscipes* Zett.—Det. Johnson.

*Cænosiæ calopyga* Loew.—Det. Johnson.

## Family SCATOPHAGIDÆ.

*Cordylura gracilipes* Loew.—Det. Johnson.

*Cordylura munda* Loew.—Det. Johnson.

*Cordylura setosa* Loew.—Det. Johnson.

*Parallelomma varipes* Walk.—Det. Johnson.

*Scatophaga furcata* Say.—Det. Johnson.

*Scatophaga pallida* Walk.—Det. Johnson.

*Scatophaga stercoraria* Linn.—Det. Johnson.

*Scatophaga suilla* Fabr.—Det. Johnson.

## Family HETERONEURIDÆ.

*Clusia lateralis* Walker.—Det. Johnson.

## Family HELOMYZIDÆ.

*Scoliocentra helvola* Loew.—Det. Johnson.

## Family SCIOMYZIDÆ.

*Bischofia (Dryomyza) aristalis* Coq.—Det. Johnson.

*Neuroctena analis* Fallen.—Det. Johnson.

*Tetranocera plebeja* Loew.—Det. Johnson.

*Tetranocera valida* Loew.—Det. Johnson.

*Tetranocera plumosa* Loew.—Det. Johnson.

*Tetranocera combinata* Loew.—Det. Johnson.

*Tetranocera flavescens* Loew.—Det. Johnson.

*Tetranocera pallida* Loew.—Det. Johnson.

*Tetranocera saratogensis* Fitch.—Det. Johnson.

## Family SAPROMYZIDÆ.

- Lauxania obscura* Loew.—Det. Johnson.  
*Sapromyza vulgaris* Fitch.—Det. Johnson.  
*Sapromyza bispina* Loew.—Det. Johnson.  
*Sapromyza tompedita* Loew.—Det. Johnson.  
*Sapromyza lupulina* Fabr.—Det. Johnson.

## Family ORTALIDÆ.

*Melieria similis* Loew.—Det. Johnson. This species was taken quite abundantly in the sweep-net from rank weeds growing by a swampy creek near the village.

*Leoptera vibrans* Loew.—Det. Johnson. These were always to be found on the windows of the railway station but none were taken elsewhere.

## Family TRYPETIDÆ.

*Rhagolitis fausta* O. S.—Several specimens of this pretty species were taken from the sweep-net or found resting on the leaves of the rank vegetation on swampy ground. The larvæ live in cherries, but I did not notice any cherry trees near where they were taken, wild cherries, however, were common about Kearney.

## Family MICRPEZIDÆ.

- Calobata univitta* Walk.—Det. Johnson.

## Family SEPSIDÆ.

- Sepsis violacea* Meig.—Det. Johnson.  
*Nemopoda cylindrica* Fabr.—Det. Johnson.

## Family PSILIDÆ.

- Chyliza apicalis* Loew.—Det. Johnson.  
*Psila bicolor* Meig.—Det. Johnson.

## Family EPHYDRIDÆ.

- Dichata caudata* Fallen.—Det. Johnson.  
*Scatella stagnalis* Fallen.—Det. Johnson.

## Family OSCINIDÆ.

- Oscinis coxendix* Fitch.—Det. Johnson.  
*Chlorops crocota* Loew.—Det. Johnson.

## Family DROSOPHILIDÆ.

- Drosophila funebris* Fabr.—Det. Johnson.

The 181 species enumerated above represent 109 genera and 36 families.